



## PATENT ABSTRACTS OF JAPAN

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(21) Application number: **08121466**(22) Date of filing: **16 . 05 . 96**(71) Applicant: **KYOSAN ELECTRIC MFG CO LTD**

(72) Inventor:  
**MURAKAMI YOICHI**  
**MARUYAMA KOJI**  
**SETO MICHIO**

(54) **INFORMATION TRANSMITTER**

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## (57) Abstract:

**PROBLEM TO BE SOLVED:** To ensure the security of transmission data and real time performance by building up a system provided with high speed response and matching performance by using a total high speed backbone network to which a plurality of signal protectors are connected.

**SOLUTION:** A node N has a transmission section 70 and generates a transmission frame including specific information of a destination host with a sufficient size with respect to a transmission data amount, and sends the frame at a sufficient shorter interval to ensure real time performance at a constant period through refreshing and is provided at least with a fault detection section FD. The fault detection section FD sets zero to data of a corresponding transmission system on the occurrence of a fault. A host H receiving information has a counter node input section 30, and counter node input sections 20, 30 are connected to a LAN channel via a plurality of nodes receiving information from the LAN of duplicate systems and receive a plurality of information sets from the duplicate systems by ORing the information sets.

